

1/10



FIG. 1A



FIG. 1B

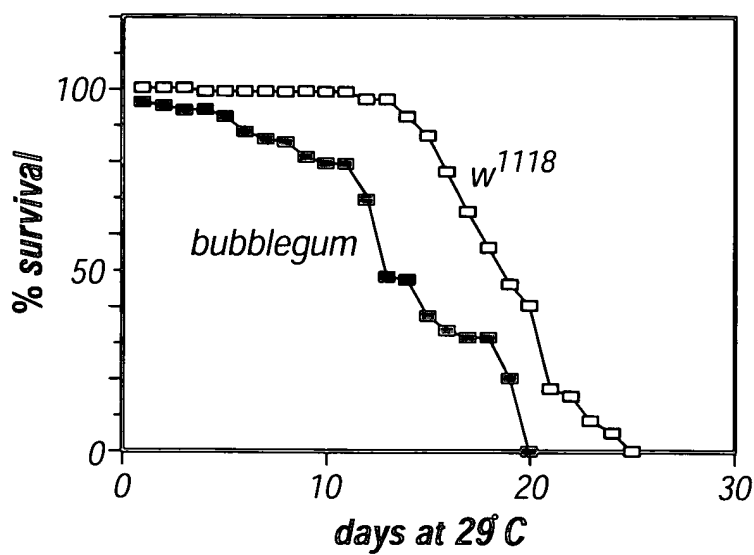


FIG. 1C

2/10



FIG. 2A

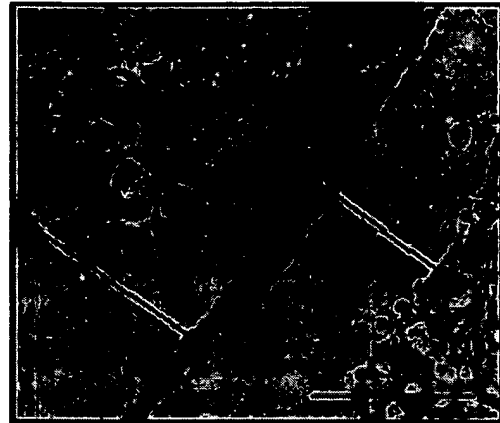


FIG. 2B

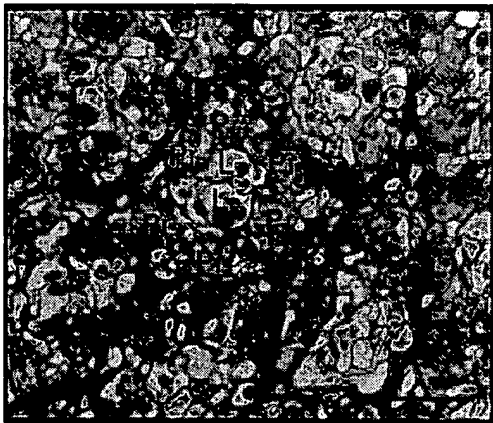


FIG. 2C



FIG. 2D

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3/10

CTGAATTCGGTCGTGTTTGTCTGCTGCTGGTTCGAGCGAAAGAGTGGAGTATAGAAA
ATAGACGGCAATCGATTTGCGTGACCAAGAAACAATAATATACATACATATATCGAGAACGC
CGTAGAAACACCAACTAGTTAATTAATCTTGCAACAATGTCACGATAGACGCGCTCTACAAT
CGTCCTGGCCCAACCGCTGCGGACGGCGGATGCCATCGCACCAACCAATCGTCAGGAT
GCCGTCAAGATTCTGTATGGCCAAGGATGGAATCGCGCAGAGAGCCCATCTCCGTGCCC
GGCCTGCTGAAGCTACGGTCAACAATTATGGGACTATCCTGCGCTGCGCACCAAGAACG
GCAAGAACGGATATCACACTGTCACCTACAAACAATATGAGCAGAAGTGCCACAGGTGGC
CAAGCGTTCAATTAAGCTCGGCTGGAGGAGCACCATTCGGTGGTGTGCTGGCCTTCAAT
TGCGCCGAATGGTTCTACTCGGCTGCGCATGGGGCCATTACGACGAGGCGATCATCGCCGGA
TCTACACCAACCAATTCGCGCGATGCAATGACGACGTTCTGGAGAGCTCACATGCCCAAAT
CGTGGTCGTCGACGACGCCAAGCAATGGACAAGATTACGCCATTGCGGACAAGCTGCCC
AAGCTCAAGCGCCCATTCAGATCCAGGAGCCCTATTCCCCCTACTTGAAGAAGGAGGATG
GCTACTACAGGTGGTCGGAGATCGAGTCGATGAACGTTAGCGACGTGGAGGATCAGTACAT
GACCCGTTTGGAGAAATGTGGCGATCAACGAGTGTGCTGCTGCTACACCTCCGGAACG
GTGGCATGCCCAAGGCGTGATGCTCTCCACGACAACATCACCTTCGATGTGCGCGGCA
TCGTCAAGGCCATGGACCGTGTGGTGGTGGGCGGAGTCGATCGTCTCCTACCTGCCACT
TTCGCACGTGGCCGCCAGACCGTGACATTACACCTGCGCCTTTGTGGCGGCTGCATT
TGGTTCGCCGACAAGGATGCGCTGAAGGGAACGCTGGTGAAGTCGTTGCAGGATGCGCGA
CCACGCGATTATGGCGTCCCGCTGTGTACGAGAAGTCCAGGAGCGAATGGTCGCC
GTGGCCAGCTCCAGCGGACGCTGAAGAAAGATGCTCGCCAGCTGGGCCAAGGGCATCACG
CTGAAGCACTACATGTTGAGTCAAGGCAAGAGCTCCGGGGATTCCGGTACAAGATTGCCA
AGTCGCTCATCATGTCCAAGTGAAGCAGGCCCTGGGCTTCGATCGCGTCTTACACTGGC
CAGTGGCGCAGTCCCATGTGCGCCGGAGACGAAGTACTTCTCAGTCTGGACCTAAAG
ATTGTCGATGCCCTTCGGCATGTCAAGAAACGGCCGGTTGTCAACCATCTGCCTTCCCATT
CGTGGGTCTGAACACAATCGGCAAACTTTGCCCGGCTGCGAGTCCAAGTTCATCAACAAG

FIG. 3A-1

4/10

GATGCCAACGGTCACGGAGAGCTGTGCATCCGAGGACGTCACGTTTTCATGGGGCTACATCG
ACAAACAGGAGAAGACCCGAGGAGTCGCTGGATGACGACTGCTGGCTGCATTCGGGTGATTT
GGATTGTGTGATGACAAGGGTTATGTTTCACTGACGGGACGATCCAAGGAGATCATCATTA
CCGCCGGCGGAGAACATACCGCCAGTGCACATCGAGAACACGATCAAGAGGAAGCTGG
ATGCCATTTCCAATGCCCTTTTGGTGGCGAGCAGCGCAATACTCACTGTTCTGATCACC
CTAAGACCCGAAGTGGACAAGGATTCCGGTGAGCCGCTGGACGAGCTTAGCCACGAGTCCT
CCGTGTGGTGAAATCGCTGGAGTGGAGCACAAAGACCGTATCGGATATCCTGGCCGCAG
GTCCCTGCCCAAGGTGTGGAAGTCCATCGAGGATGCCATTAAAGCGGCCAACAAAGCAGTC
CATTCCCAATGCCCAAGGTTCAGAAGTTCACCATTCGCCGCACGACTTCTCCATTCCCA
CCGGCGAACTTGGACCCACCCACCTAAAGTTAAGCGCAACGTTGTGCCAAGATGTATG
CCGATGAGATCGAGAACTATATGCCCTAGATTCTCACTGCAAGATCGAAACCGATGATAGC
CGCGGAACCTTGAGCTTTAATGTGAATTTGAATTTAACGGACTTCCAAGCCCAATTGAGTGCCA
CTTTTAATTTGATTTAGGCTGATGTTAACTGTTGGATATTAACTAAGAACAACTATGGCCCTA
TGCCTAGGTAGACACGAGCTTGCCAACGATTAGGTCCAGAGATCATTTAATTAGTAAGTAAG
TTTTATTTTATATACTATTTGGTTGTACCAACTGAACAAACGAAAATTGTTATTGTCTGAAG
AGCAACAAATAAATTTGTAAATTAGATTAACTACCAAAAAAATAAAAAA

FIG. 3A-2

Applicant(s): Kyung-Tai Min, et al.

METHODS AND COMPOSITIONS FOR MODULATING
NEURODEGENERATION

5/10

CTGAATTCGGTCGTGTTGCTGTCGGTCTCGAGCGGAAAGAGTGGGAGTATAGAAAATAGACGGCA
ATCGATTTGCGTGACCAAGAACAAATATATACATACATATATCGAGAACGCCGTAGAAACACCAAACTAGTTA
ATTATCCTTGCAACMSTIDALYNRPGNRLRQADAYRTTNRQDAVKIRMAKDGI GAEEPI SV PGL
LKRTVNNYGDPALRTKNGKNGYHTVYKQYEQKVHQAFAFIKLGLEHHSVGLAFNCA
EWFYSAMGAIHARGIIAGIYTTNSADAVQHVLSSHQAQIVVVDDAKQMDKIHAIRDKLPLKA
AIQIQEPYSPYLKKEDGYRWSEIESMNVSDVEDQYMTRELVAINNECCCLVYTSGTVMGPK
GVMLSHDNIITFDVRGIVKAMDRVVGAESIVSYLPLSHVAAQTVDIYTCAFVAGCIWFADKDA
LKGTLVKS LQDARPTRFMGVPRVYEKFQERMVAVASSGSLKKMLASWAKGITLKHVMVS
QKSSGGFRYKIAKSLIMSKVKQALGFDRVLTLSAAAPMSPETKKYFLSLDLKIVDAFGMS
ETAGCHTICLPDSVGLNTIGKTLPGCESKFINKDANGHGE LCI RGRHVFMGYIDNKEKTEESL
DDDCWLHSGDLGFVDDKGYVSLTGRSKEIIITAGGENIPPVHIENTIKKELDAISNAFLVGEQR
KYLTVLITLKT EVDKDSGEPLDELSSHVWVKS LGVEHKT VSDILAAGPCPKVWKSIEDAIK
RANKQISNAQKVQKFTILPHDEFIPTGELGPTH PKG*CGGACTTCCAAAGCCAATTGAGTGCCACTTT
TAATTTGATTTAGGCTGATGTTAACTGTTGGATATTAAACTAAGAACAACTATGCCCTATGCCCTAGGTAGACA
CGAGCTTGCCCAACGATTAGGTCCAGAGATCATTTAATTAGTAACTAAGTTTATTTTATATATACTATTGGTTG
TACCAACTGAACAAACGAAAATTGTTATTGCTGAAGAGCAACAATAAAATTGTAATTAGATTAACTACCAAAA
AAAAA

FIG. 3A-3

Applicant(s): Kyung-Tai Min, et al.

METHODS AND COMPOSITIONS FOR MODULATING
NEURODEGENERATION

6/10

B = *Bubblegum*
 H = *Human KIAA0631*
 R = *Rat VLCFA Synth.*

B MSTIDALYNRPGNRLRQADAYRTTNR--QDAVKIRMAKDGIGAEFEPIISVPGILLKRTVNNYGDYF 70
 H GIGNLNCBIEXTACCFPAAKIAAPR--TEINRLRIDPSCP--QLPYTVHRMFYEALDKYGDLI
 R MLPVLYTGLAGLLLP LLLTCCCPYLLQDVRFFLQLANMARQVRSYRQRRPVRTILHVFLEQARKTPHKP
 B ALRTKNGKNGYHTVYKQYEQKVHQVAKAFIK-LGLEEHHSVGVLAFNCAEFYSAMGAIHARGIIAGIY 140
 H ALGFKR-QDKWEHISYSQYLLARRRAAKGFLK-LGLKQAHSAVAILGFNSPEWFFSAVGTFFAGGIVTGII
 R FLLFRD-----ETLTAAQVDRRSNQVARALHDHGLRLQGDCAVLFMGNEPAYVWLWLGILLKLCPCMACLN
 B TTNSADAVQHVLES SHAQIVVVD DAKQMDKIHAIRDKLPKLKAAIQIQEPIYSPYLKKEDEGYRWSIEISM 210
 H TTSSPEACQYIAYDCCANVIMVDTQKQLEKILKIWKQLPHLKAQVIYKEPPP---NKMANVYTMEEFMEI
 R YNIRAKSLHCFQCCKAKVLLAS-PELHEAVEEVLP TLKKEGVSVFVVSRTS---NTNGVDTVLDRKVDGV
 B NVSDVEDQYMTTRLENVAINECCCLVYTSGTVMGPKGVMLSHDNITFDVIRGIVKAMDR--VVVGAESIVSY 280
 H GNEVP EEAALDAIIDTQQPNQCCVLVYTSGTGTPKGVMLSDQDNITWTARYGSGQAGDIRPAEVQQEVVVS
 R SADPIPESWRSEVTFFTP---AVYIYTSGTGLPKAATINHHRLWYGTSLALRSGIK-----AHDVITYT-
 B LPLSHVAAQTVDIYTQAFVAGCIWFADKDALKGTLVKSLQDARPTRFMGVPRVYEKFOERMVAVASSSGS 350
 H LPLSHIAAQIYDILWTG IQWGAQVCFAEPDALKGSLVNTLREVEPTSHMGVPRVWEKIMERIQEVAASQSGF
 R MPLYHSAAIMIGLHGCI VVGATFFALRSKFSAS-QFWDDCRKYNATVIQYIGELRLRYLCNTPQKPNDRDHK

FIG. 3B-1

7/10

FIG. 3B-2

8/10

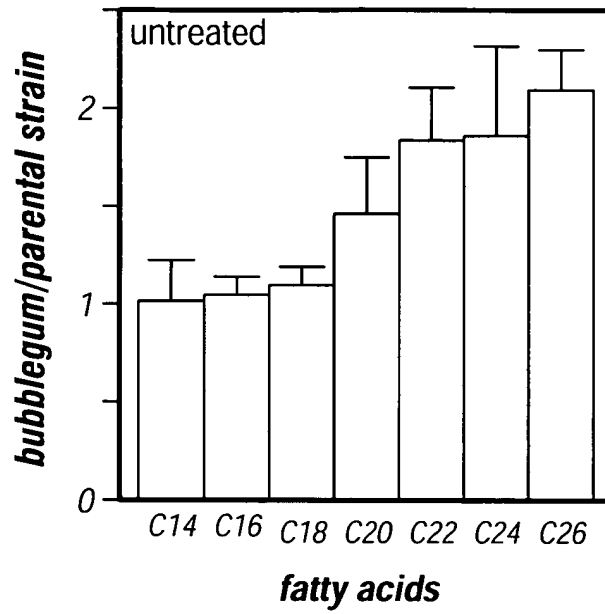


FIG. 4A

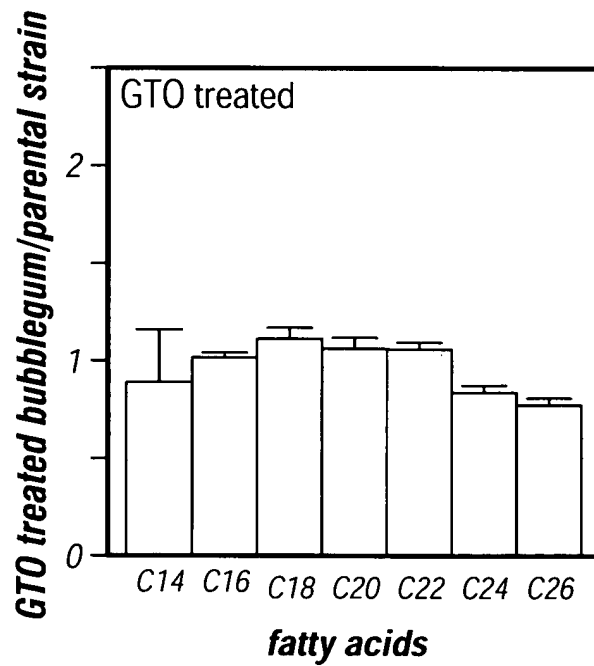


FIG. 4B

9/10



FIG. 5A



FIG. 5B

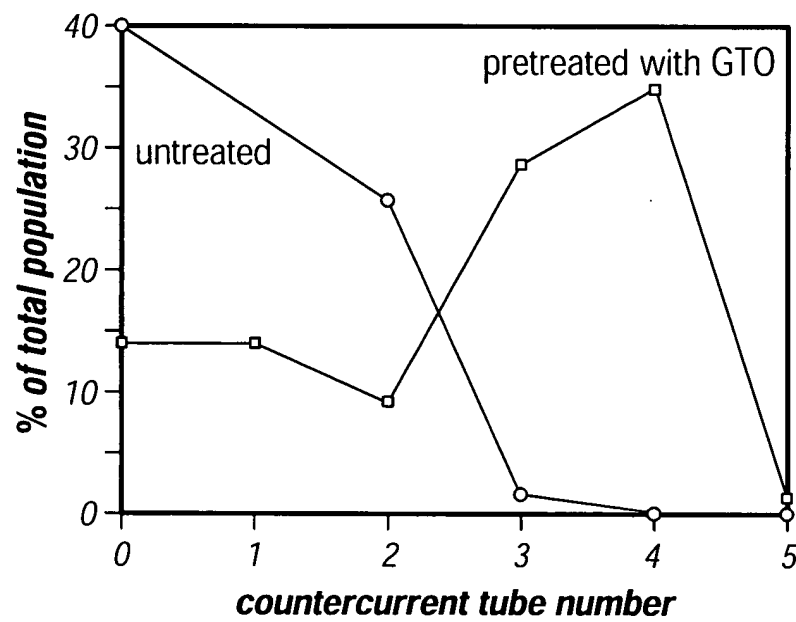


FIG. 5C

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10/10

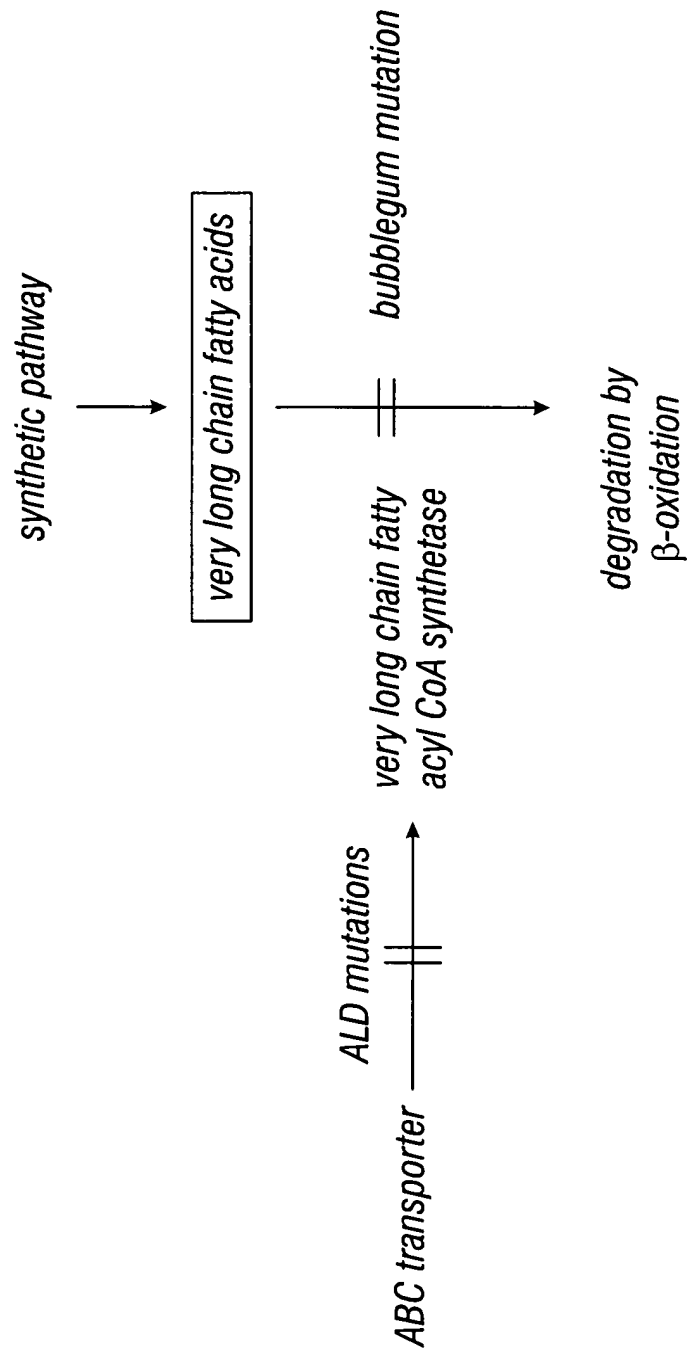


FIG. 6